FUTURECOM® SYSTEMS GROUP, ULC
a Motorola Solutions Company

Ordering Guide

PDR8000® – Portable Digital Repeater Rackmount

Revision 1.4

July, 2023

Contents

Ordering Instructions – PLEASE READ CAREFULLY 3

Important Notes 4

1. PDR8000® Rackmount Frequency Type 5

PDR8000® 136-174 MHz 5

PDR8000® 380-430 MHz 5

PDR8000® 450-470 MHz 6

2. Optional Features 7

3. Internal Duplexer Options 8

4. 50-Watt Booster Power Amplifier Option 10

5. PDR8000® Rackmount Options & Spares Ordered Separately 11

Accessories 11

6. Services 12

Ordering Instructions – PLEASE READ CAREFULLY

If only ordering spares or accessories, proceed to step 5. If only ordering services, proceed to section 6.

1. Select PDR8000® Rackmount Frequency type (Section 1). NOTE: PDR8000® Frequency type model provides a repeater designed to fit into a standard 19” rack. includes Display with local Channel Change. User must supply their own 12VDC Power Supply.

2. Select optional features if applicable to your intended operation (Section 2).

3. For full duplex operation, select the appropriate duplexer option (Section 3). NOTE the frequency requirements can be found in Section 3 to ensure your frequency plan meets the operating requirements. Duplexer is not mandatory and the ‘No Duplexer’ option can be chosen when full duplex capability is not desired.

4. Select optional 50- Watt Booster Power Amplifier for PDR8000® RACKMOUNT (section 4)

5. Select Options and Spares (Section 5).

6. Select optional services as required (section 6).

Important Notes

1. Only the frequency bands shown in Section 3 are available as standard configurations. For custom filtering, please contact Futurecom: Futurecom.Sales@motorolasolutions.com

   1 Transmit and 1 Receive frequency are required for ordering. Units will be factory tuned to these frequencies, so accuracy is important.

2. Standard PDR8000® delivery time is 10-12 weeks from the time the order is placed and the frequency information is provided. Frequency information must be accurate and in accordance with the frequency plan requirements described in this document in order to avoid delays.
3. Duplexer is not mandatory and the 'No Duplexer' option can be chosen when full duplex capability is not desired.
4. PDR8000® Rackmount models require users to supply their own 12VDC Power Supply.
5. For all sales inquiries, please contact Futurecom sales at Futurecom.Sales@motorolasolutions.com.
6. All pricing for the PDR8000® can be found in Motorola P-CAT.
7. Programming software is available for download at http://futurecom.com/support
8. Subscribe to our newsletter if you want to be informed about new releases and updates. Please visit http://futurecom.com/support/newsletter/

Frequency plans that do not meet Futurecom's specified frequency separation are custom orders. Please contact Futurecom to determine if custom frequency plan is viable and for quotations on viable plans. Futurecom.Sales@motorolasolutions.com

Futurecom, DVR-LX, PDR8000, the Futurecom Logo and the Stylized FC logo are registered trademarks of Futurecom Systems Group, ULC. All other trademarks are the property of their respective owner. © 2022 Futurecom Systems Group, ULC. All rights reserved.

1.PDR8000® Rackmount Frequency Type

PDR8000® 136-174 MHz

ORDER CODE	ITEM	INCLUDES	PREREQUISITES	NOTES
TT4079A	**Base Order Code** **PDR8000® – VHF RACKMOUNT**	VHF repeater designed to fit into a standard 19” rack includes Display with local Channel Change.		Wireline Connections; see section 2 for wireline connections options **User must supply their own 12VDC Power Supply.**

PDR8000® 380-430 MHz

ORDER CODE	ITEM	INCLUDES	PREREQUISITES	NOTES
TT4080A	**Base Order Code** **PDR8000® - UHF 380-430 MHz RACKMOUNT**	UHF 380-430 MHz designed to fit into a standard 19” rack includes Display with local Channel Change.		Wireline Connections; see section 2 for wireline connections options **User must supply their own 12VDC Power Supply.**

PDR8000® 450-470 MHz

ORDER CODE	ITEM	INCLUDES	PREREQUISITES	NOTES
TT4081A	**Base Order Code** **PDR8000® - UHF 450-470 MHz RACKMOUNT**	UHF 450-470 MHz designed to fit into a standard 19” rack includes Display with local Channel Change.		Wireline Connections; see section 2 for wireline connections options **User must supply their own 12VDC Power Supply.**

2. Optional Features

ORDER CODE	ITEM	PREREQUISITES	NOTES
TT06253AA	**Add V.24 Wireline Operation**	TT4079A or TT4080A or TT4081A	If ordered as field upgrade- Order Code: **DDN2634A**
TT06319AA	**Add Deployment Profiles Capability** If the option for Deployment Profile Capability is purchased, PDR8000® can be programmed with up to ten different Deployment Profiles, each uniquely defining the operational characteristics of the PDR8000®.	TT4079A or TT4080A or TT4081A	If ordered as field upgrade- Order Code: **DDN2633A**
TT06582AA	**Add DFSI Operation** Provides P25 standard IP wireline fixed station interface.	TT4079A or TT4080A or TT4081A	If ordered as field upgrade- Order Code: **DDN3285A** DFSI Protocol Version 1 on the Ethernet interface. Analog operation (or Mixed-mode operation) is supported on Ethernet (DFSI) interface.

3. Internal Duplexer Options

Frequency plans that do not meet Futurecom's specified frequency separation are custom orders. Please contact Futurecom to determine if a custom frequency plan is viable and for quotations on viable plans.
Futurecom.Sales@motorolasolutions.com

OPTIONS ORDER CODE	ITEM	PREREQUISITES	NOTES
TT06583AA	No Duplexer Required Option	TT4079A or TT4080A or TT4081A	
TT06584AA	Add VHF Duplexer: • 4.5-5.5 MHz TX to RX Separation • 300KHz Wide Bandpass	TT4079A	
TT06585AA	Add 380-430 MHz Duplexer: • 9.5-10.5 MHz TX to RX Separation • 300KHz Wide Bandpass	TT4080A	
TT06586AA	Add 380-430 MHz Duplexer: • 4.5-5.5 MHz TX to RX Separation • 300KHz Wide Bandpass	TT4080A	
TT06587AA	Add 450-470 MHz Duplexer: • 4.5-5.5 MHz TX to RX Separation • 300KHz Wide Bandpass	TT4081A	
CUSTOM FILTERS			

TT06579AA	ENGINERING DESIGN TIME – Non-Recurring Engineering Fee (NRE)		
TT06580AA	CUSTOM FILTER DESIGN – TIER 1 (Per Unit) This option is for a custom filter design and must be ordered if frequency plans do not meet Futurecom's specified frequency separation stated in the ordering guide in order to determine if a custom frequency plan is viable, please contact Futurecom.Sales@motorolasolutions.com prior to placing an order.		
TT06581AA	CUSTOM FILTER DESIGN – TIER 2 (Per Unit) This option is for a custom filter design and must be ordered if frequency plans do not meet Futurecom's specified frequency separation stated in the ordering guide in order to determine if a custom frequency plan is viable, please contact Futurecom.Sales@motorolasolutions.com prior to placing an order.		

4. 50-Watt Booster Power Amplifier Option

OPTIONS ORDER CODE	ITEM	PREREQUISITES	NOTES
TT3936A	VHF 50-Watt Amplifier for PDR8000® Rackmount	TT4079A	
TT3937A	UHF 380-430 MHz 50-Watt Amplifier for PDR8000® Rackmount	TT4080A	(Not available for sale in Canada)
TT3938A	UHF 450-470 MHz 50-Watt Amplifier for PDR8000® Rackmount	TT4081A	(Not available for sale in Canada)

5. PDR8000® Rackmount Options & Spares Ordered Separately

Accessories

ORDER CODE	DESCRIPTION	
TT3935A	Rackmount Alarm capability - contact closure type, temperature, power	

Software Options

ORDER CODE	DESCRIPTION
DDN2633A	Enable Deployment Profiles Capability
DDN2634A	Enable V.24
DDN3285A	PDR8000® DFSI CAPABILITY - DFSI Protocol Version 1 on the Ethernet interface. Analog operation (or Mixed-mode operation) is supported on Ethernet (DFSI) interface.

6. Services

Futurecom's standard hardware warranty is 18 months starting from the date the product ships from Futurecom. Please reference Futurecom's Terms and Conditions of Sale, Section 7 regarding standard hardware warranty https://www.futurecom.com/terms-conditions/

ORDER CODE	DESCRIPTION	Notes and Conditions
DDN2303A	PDR8000® 4 Year Extended Hardware Warranty	Extends standard 18 month hardware warranty by 4 years. Can only be purchased once per unit. Must be purchased prior to expiration of standard hardware warranty.
DDN2302A	PDR8000® 1 Year Extended Hardware Warranty	Extends existing hardware warranty by one year. Must be purchased prior to expiration of any existing hardware warranty. Standard 18 month warranty can be extended by a maximum of 4 years.
DDN3699A	On-site and/or Virtual Training (BASIC) 2 Courses Available: **1. Training the Trainer/end user** 1 Day (Est 4 hours) end user training gives the end user a general understanding of Futurecom solutions through your agencies particular use case, highlighting best practices through situations commonly seen in the field	Maximum 1 day; see EXTENDED training for additional days. Minimum 2 weeks advance notice required however subject to resource availability. Applies to North America only. Training the trainer requires the newly implemented DVRS/VRX1000/PDR8000® to be tested and in use

ORDER CODE	DESCRIPTION	Notes and Conditions
	during deployment situations. Participants will have hands on training with the newly implemented solution for practical operation and control. **OR** **2. Technical and Programming Training** 1 Day Technical and Programming training gives the radio technician an in depth understanding on how the DVR-LX®/VRX1000/PDR8000® is integrated into the everyday operation of the agency. Highlighting code plug compatibility, Futurecom Repeater Configurator (FRC) software functionality and programming for optimal end user experience.	on the network to get the most out of the Training the Trainer. Standard training package. Includes soft copy of training materials. Customized training available subject to content and price negotiation. Technical and Programming Training, Futurecom Systems Group, ULC requires at least two full functioning Portable radios (PSUs) programmed to the current system, at least one installed DVR-LX®/VRX1000/PDR8000®. For DVRS and VRX1000 use a Mobile Radio (MSU) radio set is required to conduct this training properly.
DDN3700A	On-site and/or Virtual Training (EXTENDED)	Must purchase BASIC virtual training.